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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

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Listing of Claims:

Cancel Claim 1

- 2. (original) A circuit for sensing radio frequency energy, comprising:
- a Wheatstone bridge having a pair of parallel circuit paths disposed between a pair of input nodes, each path having a pair of serially connected elements, each pair of elements in each one of the paths being connected at a corresponding one of a pair of output nodes, at least one element in a first one of the pair of paths being thermally responsive to the radio frequency energy passing therethough differently from radio frequency energy passing though at least one other element in the other one of the pair of paths.
- 3. (original) The circuit recited in claim 2 wherein a first one of the input nodes is coupled to a source of the radio frequency energy and to a source of dc voltage.
- 4. (original) The circuit recited in claim 3 including a feedback loop responsive to a voltage produced across the output node for providing a control voltage to the first one of the pair of input node.
- 5. (original) The circuit recited in claim 2 wherein the first one of the paths includes a capacitor disposed in shunt with an electrical element having an electrical property varying with the radio frequency energy passing through such electrical element.
- 6. (original) The circuit recited in claim 5 wherein the electrical property is electrical

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resistance.

- 7. (original) A circuit for sensing radio frequency energy, comprising:
 - a Wheatstone bridge having a pair of parallel circuit paths disposed between a pair of input nodes, each path having a pair of serially connected elements, each pair of elements in each one of the paths being connected at a corresponding one of a pair of output nodes, at least one element in a first one of the pair of paths being thermally responsive to the power passing therethough differently from power passing though at least one other element in the other one of the pair of paths;

wherein a first one of the input nodes is coupled to a source of the radio frequency energy and to a source of dc voltage; and

- a feedback loop responsive to a voltage produced across the output node for providing a control voltage to the first one of the pair of input node.
- 8. (original) The circuit recited in claim 7 wherein the first one of the paths includes a capacitor disposed in shunt with an electrical element having an electrical property varying with the radio frequency energy passing through such electrical element.
- 9. (original) The circuit recited in claim 7 wherein the electrical property is electrical resistance.
- 10. (original) The circuit recited in claim 9 wherein the electrical property is thermal resistance;
- 11. (original) The circuit recited in claim 9 wherein the electrical property is thermal sensitivity.

- 12. (original) A method for sensing power comprising:
 - (A) providing a Wheatstone bridge having:

a pair of parallel circuit paths disposed between a pair of input nodes, each path having a pair of serially connected elements, each pair of elements in each one of the paths being connected at a corresponding one of a pair of output nodes, at least one element in a first one of the pair of paths being thermally responsive to the power passing therethough differently from power passing though at least one other element in the other one of the pair of paths and wherein a first one of the input nodes is coupled to a source of the radio frequency energy and to a source of dc voltage; and

a feedback loop responsive to a voltage produced across the output node for providing a control voltage to the first one of the pair of input node;

- (B) applying a first type of power to the bridge with the feedback loop providing a voltage to the first one of the node and with such bridge being in a balanced condition within the bridge; and
- (C) applying a second type of power to the bridge with the bridge becoming imbalanced from such applied second power and with the feedback loop changing the voltage to the first node, such changed voltage providing an indication of the application of the second type of power.
- 13. (original) The method recited in claim 12 wherein the first type of power is dc power and the second power is RF power.
- 14. (previously presented l) A circuit for sensing radio frequency energy, comprising: a network having:

four nodes: and

four lumped electrical elements, each one being connected between a different pair of the four nodes; and wherein

at least of the one four electrical elements is thermally responsive to the radio frequency energy passing therethough differently from radio frequency

energy passing though at least one other one of the four electrical elements of the network.

15. (previously presented) A circuit for sensing radio frequency energy, comprising: a network having:

four nodes, one pair thereof being input nodes and a pair of different nodes thereof being output nodes; and

a pair of parallel circuit paths disposed between the pair of input nodes, each path having a pair of serially connected elements, each pair of elements in each one of the paths being connected at a corresponding one of the pair of output nodes, at least one element in a first one of the pair of paths being thermally responsive to the radio frequency energy passing therethough differently from radio frequency energy passing though at least one other element in the other one of the pair of paths.

- 16. (previously presented) The circuit recited in claim 15 wherein a first one of the input nodes is coupled to a source of the radio frequency energy and to a source of do voltage.
- 17. (previously presented) The circuit recited in claim 16 including a feedback loop responsive to a voltage produced across the output node for providing a control voltage to the first one of the pair of input node.
- 18. (previously presented) The circuit recited in claim 15 wherein the first one of the paths includes a capacitor disposed in shunt with an electrical element having an electrical property varying with the radio frequency energy passing through such electrical element.
- 19. (previously presented) The circuit recited in claim 18 wherein the electrical property is electrical resistance.

- 20. (previously presented) The circuit recited in claim 15
 - wherein a first one of the input nodes is coupled to a source of the radio frequency energy and to a source of dc voltage; and
 - a feedback loop responsive to a voltage produced across the output node for providing a control voltage to the first one of the pair of input node.
- 21. (previously presented) The circuit recited in claim 15 wherein the first one of the paths includes a capacitor disposed in shunt with an electrical element having an electrical property varying with the radio frequency energy passing through such electrical element.
- 22. (previously presented) A method for sensing power comprising:
 - (A) providing a a network having:

four nodes, one pair thereof being input nodes and a pair of different nodes thereof being output nodes;

a pair of parallel circuit paths disposed between the pair of input nodes, each path having a pair of serially connected elements, each pair of elements in each one of the paths being connected at a corresponding one of the pair of output nodes, at least one element in a first one of the pair of paths being thermally responsive to the radio frequency energy passing therethough differently from radio frequency energy passing though at least one other element in the other one of the pair of paths wherein a first one of the input nodes is coupled to a source of the radio frequency energy and to a source of de voltage; and

- a feedback loop responsive to a voltage produced across the output node for providing a control voltage to the first one of the pair of input node;
- (B) applying a first type of power to the network with the feedback loop providing a voltage to the first one of the node and with such network being in a balanced condition within the network; and
 - (C) applying a second type of power to the network with the network:

becoming imbalanced from such applied second power and with the feedback loop changing the voltage to the first node, such changed voltage providing an indication of the application of the second type of power.

23. (previously presented) The method recited in claim 22 wherein the first type of power is dc power and the second power is RF power.